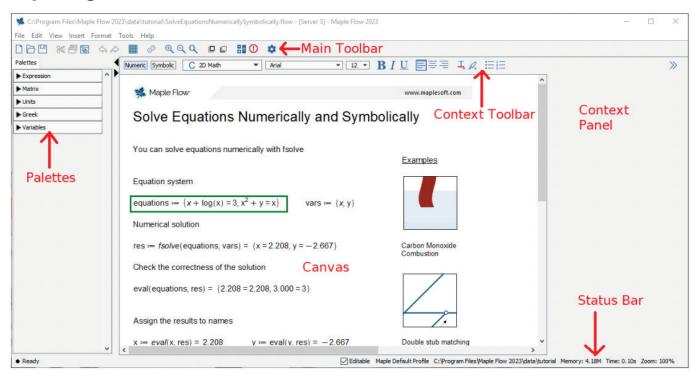
Getting Started with Maple Flow



If you're a new user

- Explore the in-product Application Gallery for examples across many disciplines or visit maplesoft.com/applications/flow for more.
- Follow the in-product tutorials using View>Home>Tutorial
- Reach out with your questions to the Support Contacts below we're here to help!

Exploring the Interface



WORKING WITH A NEW CANVAS	
Define a parameter	x := 1 (x colon equals 1)
Command completion	Type first few characters of command or variable, then Ctrl+Space e.g. Thermo Ctrl+Space
Insert a units placeholder	Ctrl+Shift+U or Units palette
Convert the units of a result	 Click inside the result unit and edit 2 ft + 2 in = 0.660 m or click the result and use the Context Panel
Move a container with the keyboard	 Move the grid cursor into a container, then Ctrl+arrow keys Make sure the math container is not surrounded by a border, then click-drag container into position

Equality between two sides of an equation	Press Ctrl+=
Delete a container	Move the grid cursor onto a container, then Ctrl+Del
Current value of variables	Variables palette

DOCUMENTATION		
Write text	Click in a blank part of the canvas, then press Space and start typing	
Format Text	Click in text and use the Context Bar and Text Styles	
Insert a section	Insert>Section	
Export a PDF	File > Export As	
Command completion	Ctrl+Space	
Viewing the extents of a printed page	View > Print Extents	
Go to the Home page	View > Home	
Background color of math container	Right click on container and click Background color	
Greek Letters	Greek palette	
	 Roman transliteration followed by Command Completion e.g alpha Ctrl+Space or Delta Ctrl+Space 	
Page Break	• Insert > Page Break	
	• or Ctrl+Enter	

EVALUATION	
Evaluate math and display results	Press = anywhere in math
Prevent floating point approximation	Click inside the math container, then click <i>Symbolic</i> in the Context Bar or Alt+S . You may need to make several preceding math containers symbolic as well
Disable/enable automatic evaluation of worksheet	
Disable evaluation for individual math	Right click on math and select Disable Evaluation

BASIC MATH	
Solve equations numerically	fsolve({equations},{initial values}) e.g. fsolve({x+y=1,x^2+y=1},{x=1,y=1})
Solve equation symbolically	solve({equations},{unknowns}) e.g. solve({x+y=1,x^2+y=1},{x,y})
Piecewise expressions	 Expressions palette >
Booleans	 <=, >=, <, > (<= and >= typeset to ≤ and ≥) and/or (followed by command completion to typeset to ∧/v)
Create a simple plot	plot(sin(x),x=010) See Home>Tutorials>Plots in-product for more
Substitute numerical values into an expression	eval(x+y,[x=1,y=2])

MATRICES AND VECTORS	
Create a Matrix or Vector	 Matrix palette Matrix([[1,2,3],[3,4,5]]) Vector([3,4,5]) or Vector([3,4,5], orientation =row)
Index into a matrix, vector, list or expression sequence	Square brackets e.g. L[index] or M[rowIndex, columnIndex]
Adding all the values in Vector or Matrix	add(M[i],i=1N)
Number of rows and columns in a Vector or Matrix	upperbound(M)
Extract rows or columns from a Matrix	M[,columnIndex] or M[rowIndex,]
Matrix Math	Inverse: M ⁻¹ Multiplication: M.M (i.e. M period M) Transpose: M ^{*T}

Further Resources

The Maple Flow Help system allows you to browse and search for help on specific topics as you add mathematics, data analysis and add plots and graphics – select **Help > Maple Flow Help**

Maple Flow User Guide https://www.maplesoft.com/documentation_center/

Maple Flow Training Resources https://www.maplesoft.com/support/training/

MaplePrimes (Maplesoft User Community Forum) https://www.mapleprimes.com/

Maplesoft Product Information https://www.maplesoft.com/products/

Support

Our Online Support webpage shows various ways to connect with Maplesoft for questions and help. https://www.maplesoft.com/support/

You can also email:

Sales and Licensing Support: custservice@maplesoft.com
Technical Support: support@maplesoft.com

